

# Fox River Remediation Current Cost Estimate - November 2009

Category	BODR 2005 USD	BODR 2009 USD	Current Estimate (nominal) 2009 USD	Escalation 2009 USD	Current Estimate 2009 USD	Variance (Current - BODR) 2009 USD
<b>Mobilization/Demobilization</b>	205,873	224,077				
Mob/Demob mechanical and hydraulic dredge	12,452,596	13,553,674				
Mob/Demob Capping Equip	1,631,818	1,776,106				
Mob/Demob			44,819,907	31,426	44,851,333	
Mob/Demob Total (\$)	14,290,287	15,553,857	44,819,907	31,426	44,851,333	29,297,476
<b>Mechanical debris removal</b>	2,541,272	2,765,975				
Debris removal			3,849,510	-	3,849,510	
Debris Removal Total (\$)	2,541,272	2,765,975	3,849,510	-	3,849,510	1,083,535
<b>Non-TSCA Dredging, Dewatering, Transport &amp; Disposal (DDTD)</b>	579,016	630,214				
Hydraulic and mechanical dredging	33,266,842	36,208,349				
Sediment processing Non-TSCA	99,338,198	108,121,839				
Sediment Disposal NR 500 C&O	67,581,129	73,556,759				
Beneficial reuse	6,140,336	6,683,274				
OU2/3 DDTD			28,156,890	151,438	28,308,328	
OU4 Non-TSCA DDTD			233,972,731	1,231,429	235,204,160	
Non-TSCA Dredging, Dewatering, Transport & Disposal Total (\$)	206,905,521	225,200,435	262,129,621	1,382,867	263,512,488	38,312,053
<b>TSCA Dredging, Dewatering, Transport &amp; Disposal</b>						
TSCA dredging & disposal	24,893,522	27,094,647				
Dewatering treatment of TSCA sed.	5,836,516	6,352,590				
TSCA DDTD			25,093,576	57,288	25,150,864	
TSCA Dredging, Dewatering, Transport & Disposal Total (\$)	30,730,038	33,447,237	25,093,576	57,288	25,150,864	(8,296,373)
<b>Design and Infrastructure</b>						
Site Prep - Shell prop OU4	30,186,973	32,856,153				
Engineering and Design	10,000,000	10,884,216				
Field investigations			712,000	-	712,000	
Agency coordination			745,000	11,922	756,922	
Public involvement			298,915	3,028	301,943	
Staging/access property lease			16,598,606	(4,180)	16,594,426	
Site historic surveys			1,157,000	-	1,157,000	
Remedial design			4,910,967	(837)	4,910,130	
Insurance			17,650,841	-	17,650,841	
Submittals			186,000	3,310	189,310	
Infrastructure			51,077,067	-	51,077,067	
Bathymetric survey			21,717,500	62,268	21,779,768	
Design and Infrastructure Total (\$)	40,186,973	43,740,369	115,053,896	75,511	115,129,407	71,389,038
<b>Mechanical Capping</b>	10,795,603	11,750,167				
Mechanical capping OU3 and OU4	18,275,143	19,891,060				
Engineered caps			81,257,105	234,579	81,491,684	
Sand covers			32,970,606	82,524	33,053,130	
Engineered Caps Total (\$)	29,070,746	31,641,227	114,227,711	317,103	114,544,814	82,903,586
<b>Shoreline Capping</b>	755,216	821,993				
Shoreline capping OU3 and OU4	2,502,560	2,723,840				
Shoreline caps			8,469,626	-	8,469,626	
Shoreline Caps Total (\$)	3,257,776	3,545,834	8,469,626	-	8,469,626	4,923,793
<b>Residual Cover</b>	1,455,730	1,584,448				
Residual cover OU3 and OU4	9,339,255	10,165,047				
Residual Cover Total (\$)	10,794,985	11,749,495	-	-	-	(11,749,495)
<b>Residual Dredging</b>						
Residual Dredging - OU3			15,016,048		15,016,048	
Residual Dredging - OU4			8,904,726		8,904,726	
Residual Dredging Total (\$)			23,920,774		23,920,774	23,920,774
<b>Regulatory Compliance</b>						
Construction monitoring & surveys	4,417,535	4,808,140				
Contractor CQ/monitoring	32,736,584	35,631,205				
Construction work plans	531,000	577,952				
Agency coordination & reporting			598,000	(2,674)	595,326	
Community health & safety			3,888,000	50,525	3,938,525	
Construction monitoring (environ)			5,405,999	48,565	5,454,564	
Construction monitoring (perform)			14,048,325	(15,502)	14,032,823	
EPA closeout & record retention			1,270,000	17,052	1,287,052	
Regulatory Compliance Total (\$)	37,685,119	41,017,297	25,210,324	97,966	25,308,290	(15,709,007)
<b>Construction Support</b>	9,124,360	9,931,150				
Site Support			52,078,612	393,531	52,472,143	
Site Support Total (\$)	9,124,360	9,931,150	52,078,612	393,531	52,472,143	42,540,993
<b>Value Engineering</b>			685,512	-	685,512	
VE / Reuse Total (\$)	-	-	685,512	-	685,512	685,512
<b>Escalation</b>						
Contract Escalation Total (\$)	-	-	-	-	-	-
<b>Long-term Monitoring</b>	11,934,554	12,989,826				
Long-term monitoring			18,422,216	-	18,422,216	
Long-term Monitoring Total (\$)	11,934,554	12,989,826	18,422,216	-	18,422,216	5,432,390
VE shared savings payout			18,480		18,480	
VE shared savings payout			2,394,000		2,394,000	
VE shared savings payout			1,800,000		1,800,000	
Shared Savings Payout Total (\$)	-	-	4,212,480		4,212,480	4,212,480
<b>Total Project Costs (\$)</b>	<b>396,521,631</b>	<b>431,582,701</b>	<b>698,173,764</b>	<b>2,355,692</b>	<b>700,529,456</b>	<b>268,946,755</b>

## Notes:

- This table presents a comparison to the Final BODR dated 16 June 2006.
- Current estimate based on Tetra Tech's 28 September 2009 cash flow plus adjustments for area / volume changes based on TT cap and cover analysis. An escalation adjustment has been apportioned to the applicable items. The adjustment assumes constant inflation at the current year's rate for future years.
- Inflation adjustment calculated using the US Bureau of Labor Statistics CPI - All Urban Consumers (series ID CUUR0000SA0). Inflation calculated from January 2006 to August 2009.
- The BODR reported long-term monitoring as a net present value (NPV). PCC back-calculated the 2005 USD costs for long term monitoring and maintenance from the BODR's cost estimating back up and replaced the NPV with a 2005 USD cost.
- Below are the volumes for each estimate. Current estimate volumes derived from the 100% Design Draft, dated 17 November 2009.

	BODR Est	Current Est
TSCA (in situ dredged)	200,000 cy	170,000 cy
Non-TSCA (in situ dredged)	3,486,000 cy	3,391,103 cy
TSCA for disposal	270,000 tons	93,806 tons
Non-TSCA for disposal	1,815,000 tons	2,170,796 tons
Estimated sand volumes	1,266,797 tons	1,851,135 tons
Estimated stone volumes	574,435 tons	736,366 tons